SALES OFFICES

NGK-LOCKE, INC.

BALTIMORE, MD 21230
2525 Insulator Drive
(301) 347-1700

ATLANTA, GA 30303
229 Peachtree Street, N.E.
Suite 605
(404) 659-3153

MOUNT PROSPECT, IL 60056
1699 Wall Street, Suite 214N
(312) 640-1660

HOUSTON, TX 77056
5333 Westheimer
Suite 730
(713) 840-1625

LOS ANGELES, CA 90071
333 So. Grand Avenue
Suite 3050
(213) 625-3921

NGK INSULATORS OF CANADA, LTD.

MISSISSAUGA, ONTARIO L4Z 1S6
244 Britannia Road East
(416) 890-0813

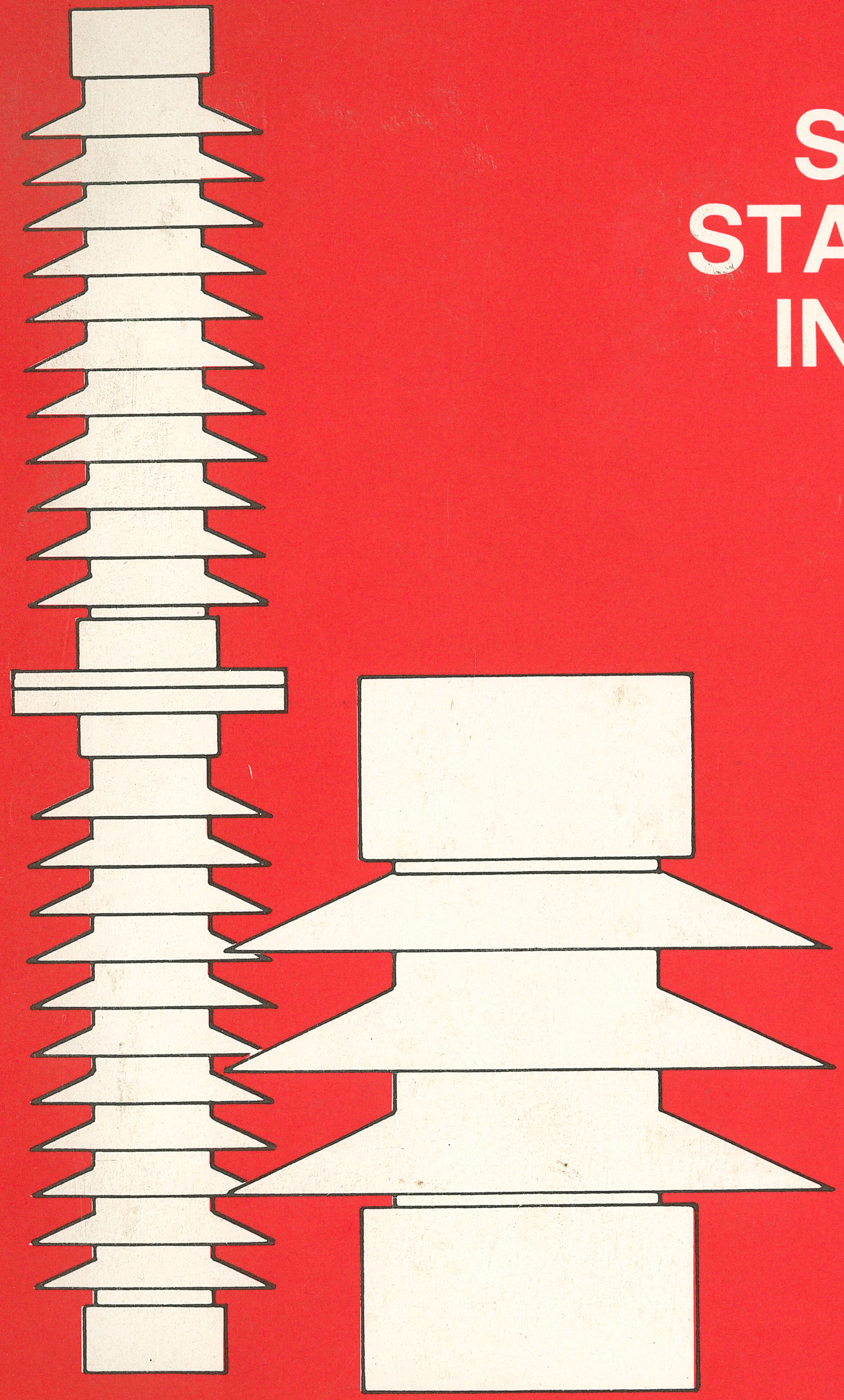
LOCKE INSULATORS, INC.

BALTIMORE, MD 21230
2525 Insulator Drive
(301) 347-1705

LOCKE INSULATORS

CATALOG NO. 881

LOCKE
SOLID-CORE STATION POST INSULATORS



LOCKE INSULATORS®

BALTIMORE, MARYLAND

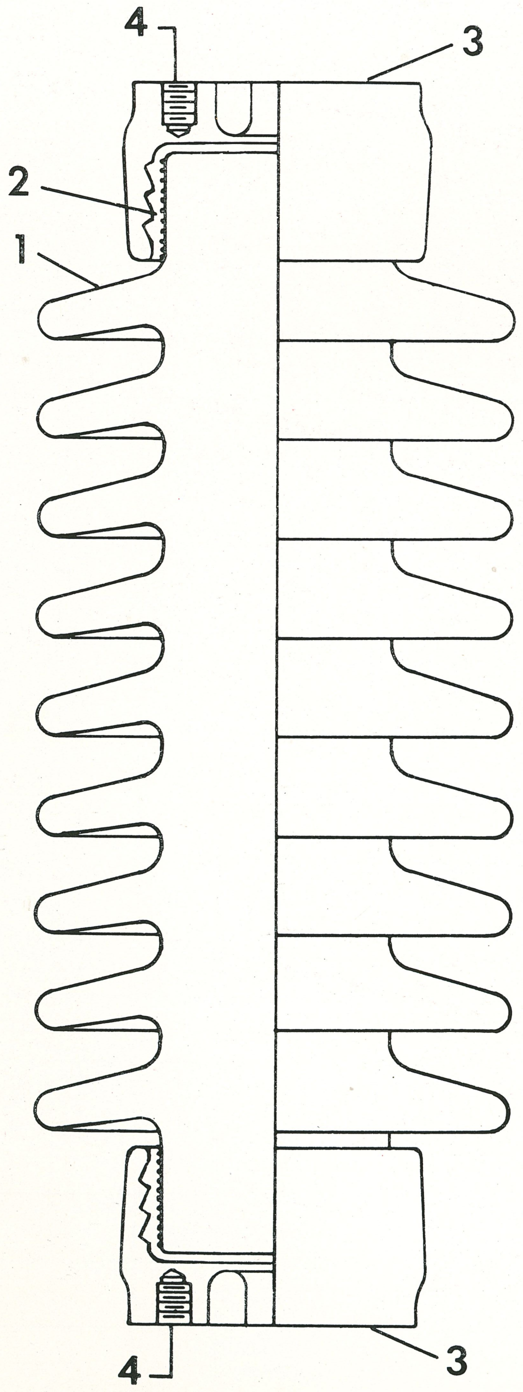
GUIDE TO SELECTION OF LOCKE SOLID-CORE STATION POST INSULATORS

BIL kV	1,000 LB. STRENGTH			STANDARD STRENGTH		
	Cantilever Strength lb.	ANSI TR No.	Cat. No.	Cantilever Strength lb.	ANSI TR No.	Cat. No.
95	———	—	———	2,000	202	PS00910 page 7
110	———	—	———	2,000	205	PS01110 page 8
150	———	—	———	2,000	208	PS01510 page 9
200	1,000	—	PB02010 page 10	2,000	210	PS02010 page 10
250	1,000	—	PB02510 page 11	2,000	214	PS02510 page 11
350	1,000	—	PB03510 page 12	1,500	216	PS03510 page 12
550	———	—	———	2,000	286	PS05510 page 13
650	———	—	———	1,450	288	PS06510 page 14
750	———	—	———	1,200	291	PS07510 page 15
900	———	—	———	1,000	304	PS090201 page 17
1,050	———	—	———	1,000	312	PS105201 page 19

BIL kV	HIGH STRENGTH					EXTRA HIGH STRENGTH				
	Cantilever Strength lb.	Tapered		Uniform		Cantilever Strength lb.	Tapered		Uniform	
		ANSI TR No.	Cat. No.	ANSI TR No.	Cat. No.		ANSI TR No.	Cat. No.	ANSI TR No.	Cat. No.
95	4,000	—	———	222	PH00910 page 7	8,000	—	———	—	PE00910 page 7
110	4,000	—	———	225	PH01110 page 8	8,000	—	———	—	PE01110 page 8
150	4,000	—	———	227	PH01510 page 9	8,000	—	———	—	PE01510 page 9
200	4,000	—	———	231	PH02010 page 10	8,000	—	———	—	PE02010 page 10
250	4,000	—	———	267	PH02510 page 11	7,000	—	———	—	PE02510 page 11
350	3,000	—	———	278	PH03510 page 12	5,000	—	———	—	PE03510 page 12
550	2,900	—	———	287	PH05510 page 13	5,000	—	———	—	PE05510 page 13
650	2,450	—	———	289	PH06510 page 14	4,100	—	———	—	PE06510 page 14
750	2,000	—	———	295	PH07510 page 15	3,500	—	———	—	PE07510 page 15
900	1,450	—	PH09020 page 16	308	PH090201 page 17	2,750	—	PE09020 page 16	—	PE090201 page 17
1,050	1,250	—	PH10520 page 18	316	PH105201 page 19	2,300	—	PE10520 page 18	362	PE105201 page 19
1,300	1,000	—	PH13020 page 20	324	PH130201 page 21	2,050	369	PE13020 page 20	368	PE130201 page 21
	1,450	367	PH130202 page 20	—	———	———	—	———	—	———
1,470	1,000	—	———	330	PH147201 page 23	1,750	373	PE14720 page 22	372	PE147201 page 23
	1,170	371	PH147202 page 22	—	———	———	—	———	—	———
1,550	———	—	———	—	———	1,700	379	PE15530 page 24	—	———
1,800	———	—	———	—	———	1,400	391	PE18030 page 25	—	———
2,050	———	—	———	—	———	1,200	—	PE20530 page 26	—	———

LOCKE INSULATORS, INC.
SOLID-CORE STATION POST INSULATORS

Locke station post insulators are engineered to provide the performance required for today's rigorous substation operations. The designs, which feature solid-core porcelain bodies made with modern equipment and technology, will provide unparalleled electrical and mechanical reliability. Insulators are offered in a wide variety of voltage and strength ratings. Special requirements should be referred to the local Locke sales representative for consultation with factory design engineers.



CONSTRUCTION DETAILS

1. The solid core porcelain design is engineered to be electrically puncture-proof and have high mechanical strength. Proven manufacturing techniques provide the finest quality porcelain to ensure uniformly high mechanical and electrical strength.

2. Assembly of hardware and porcelain is made with Portland cement, steam cured under controlled conditions to achieve optimum physical properties. Glaze bonded sand surfaces on the porcelain provide reliable gripping areas to develop the full strength of the assembly.

   To relieve thermal stresses and assist in the distribution of working stresses between components, a permanently flexible coating is applied in the cement joint area separating the cement from the other components. This coating also prevents any chemical reaction between cement and hardware.

3. The insulator caps, bases, and adapters are made from the finest malleable iron, ductile iron, or low carbon steel. All hardware is hot dip galvanized exceeding ASTM requirements and providing maximum corrosion protection. To provide a true bolt circle, jig drilling and tapping is employed. Mounting surfaces are inspected to ensure flatness.

4. All station post insulators are jig assembled to assure proper alignment of bolt holes, correct height, and parallel mounting surfaces. Units are inspected for alignment, height, and parallelism after assembly.

DESIGN FEATURES

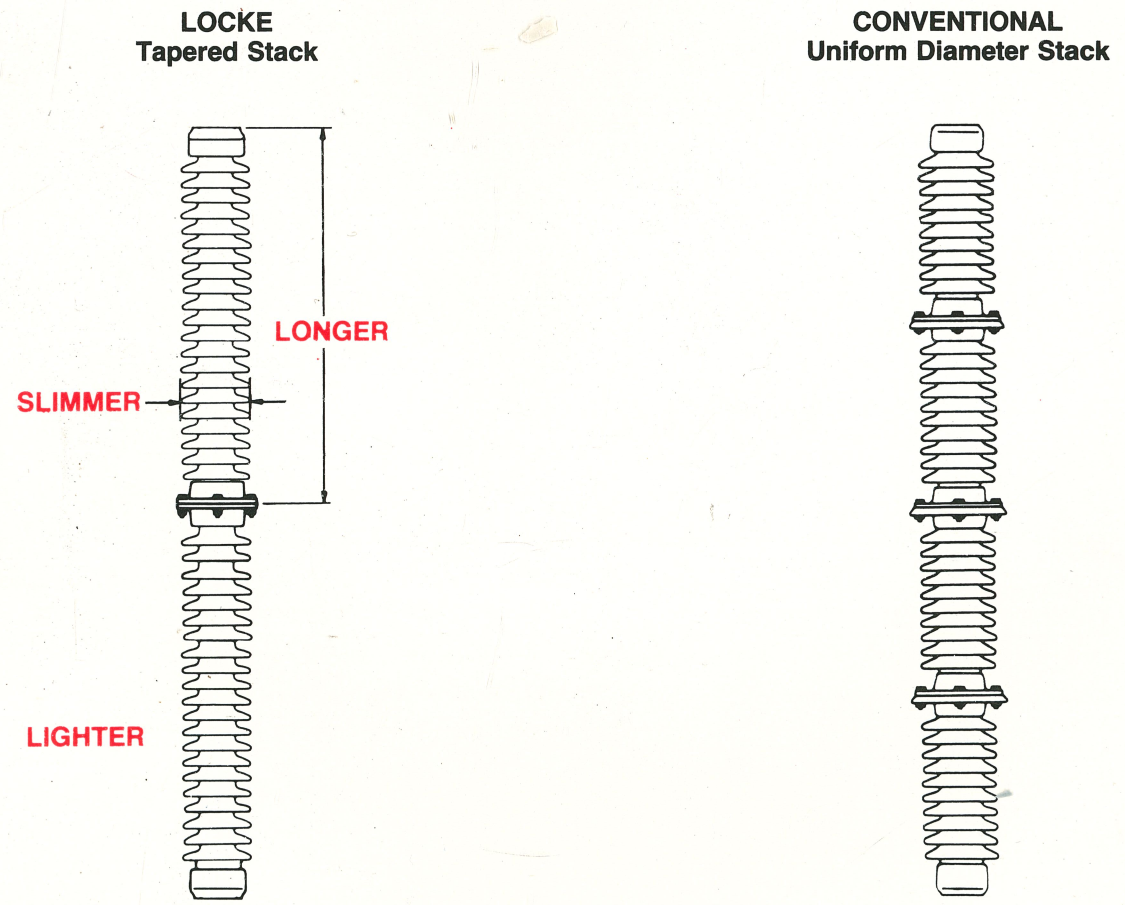
Economical

The Locke solid-core station post insulators offer a wide range of economies for the substation designer in a variety of areas.

The small diameters of Locke solid-core station post insulators result in a *reduced wind load. Improved contamination and earthquake performance* results from the lighter weight small diameter design. The reduced weight and volume will mean considerable *savings in shipping, handling, and installation costs* compared with other types of station insulators.

Single insulators are surely easier to use than are multi-unit insulators. Locke extends this ease through 750 kV BIL via a combination of design and production capabilities. The benefits of the Locke tall solid core insulator design are *lighter weight, better electrical performance,* and *enhanced rigidity. Reduced installation costs* result from the elimination of intermediate hardware, since cumulative dimensional error and on-site handling are minimized.

The capability for longer single-unit porcelains also extends into the stacking area so that *smaller numbers of stacking components* are required to build a complete insulator stack.



Anti-Contamination

Whether contamination is water soluble or particulate, the post insulator design has the advantage of a profile that is easily cleaned by wind and rain. Substations are sometimes located in areas of severe contamination. In these areas extra leakage distance may be utilized to provide an extra measure of protection. Extra leakage distance may be obtained by using station post insulators of a higher voltage rating or by using Locke High Leakage Distance (HLD®) series insulators (covered in another catalog). These HLD station post insulators provide the same height, mounting dimensions, and mechanical strengths as the standard leakage distance insulators of the same voltage class.

Deterioration-Free

Electrical reliability is totally assured with Locke's solid-core porcelain bodies. They are "puncture proof" by virtue of the internal dielectric path being almost as long as the external dielectric path, and the high electrical strength of the fine quality body. Only external flashover can occur from all conditions of electrical stress.

Rating

Insulators are available in all voltage ratings, from 7.5 kV through 500 kV, in up to four cantilever ratings – 1,000 lb. strength, standard strength, high strength, and extra high strength.

The maximum working loads recommended by Locke are 40 percent of the rated strengths.

Quality

The carefully executed insulator designs are reproduced in modern production facilities using processes and manufacturing techniques which optimize the performance characteristics. Each step of production, from the clay-making through the final assembly, is carefully monitored and controlled to ensure that every critical aspect of processing conforms to established parameters. Locke's final inspection includes a careful visual examination and testing. After assembly, Locke solid-core station post insulators are subjected to a cantilever or bending test equivalent to 50% of the cantilever rating of the insulator. Since bending or cantilever loading is the most severe loading condition for a post insulator, the Locke test assures high mechanical integrity. Thus, the final inspection on finished insulators confirms that only the finest possible insulator has been produced.

CATALOG NUMBER SYSTEM

The catalog number is a 7 alpha-numeric system which relates to mechanical and electrical strength, number and type of units comprising the insulator, and the mounting hardware configuration.

P S 090 2 0 1

Post Insulator

Electrical Rating
090--900 KV BIL

Mounting Hardware
0--Cap Top and Bottom
1--Flange top and bottom
2--Cap top and flange bottom

Cantilever Rating
B--1000 lb. Strength
S--Standard Strength
H--High Strength
E--Extra High Strength

Number and Type of Units
1--Single Unit/Std. Leakage
2--Two Unit Stack/Std. Leakage
3--Three Unit Stack/Std. Leakage

Special*
1--Uniform diameter economical design

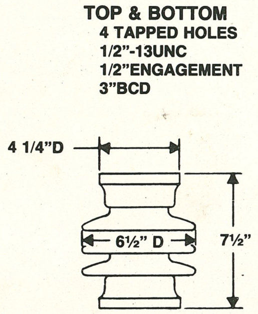
Stack Components**
J,Y--Cap top and flange bottom
S,W--Flange top and bottom
R,X--Flange top and cap bottom

* Locke recommends using the most economical insulator consistent with the required performance. In this catalog the most economical multi-unit types of post insulators are tapered, and the catalog number favors this design. In the event that a uniform diameter insulator is wanted, it is necessary to increase the alpha-numeric system to eight.

** The components which comprise the complete insulators for multi-unit types use the same basic catalog number, except that alphas replace the last position numeric.

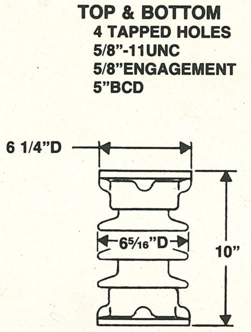
BIL 95 KV

STANDARD STRENGTH UNIT



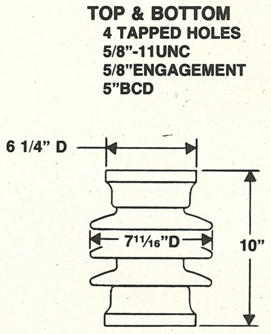
CAT. NO. PS00910
ANSI TR NO. 202

HIGH STRENGTH UNIT



CAT. NO. PH00910
ANSI TR NO. 222

EXTRA HIGH STRENGTH UNIT



CAT. NO. PE00910

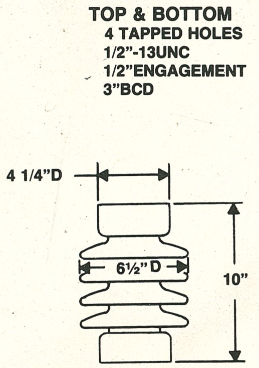
CHARACTERISTICS

Cat. No.		PS00910	PH00910	PE00910
Leakage Distance/in.		10½	10½	10½
Cantilever Strength/lb.		2,000	4,000	8,000
Tensile Strength/lb.		7,000	15,000	28,000
Torsional Strength/in.-lb.		6,000	12,000	40,000
Compression Strength/lb.		10,000	20,000	40,000
Critical Impulse Flashover Voltage, Positive/kV		105	105	105
Withstand Voltage	Low Frequency, Wet/kV	30	30	30
	Impulse/kV	95	95	95
Radio-Influence Voltage Data	Test Voltage to Ground/kV	5	5	5
	Maximum RIV at 1,000 kHz/μV	50	50	50
Net Weight/lb.		15	28	34

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray and chocolate brown glaze is available.

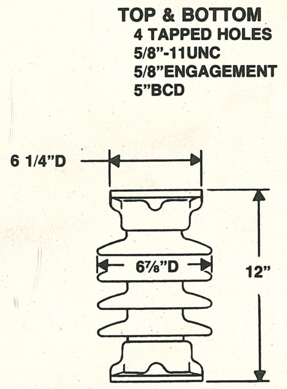
BIL 110 KV

STANDARD STRENGTH UNIT



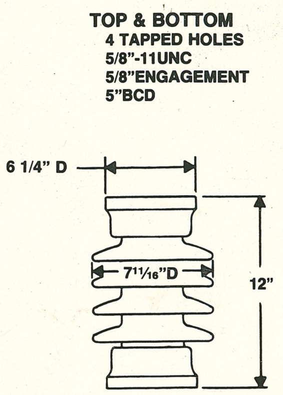
CAT. NO. PS01110
ANSI TR NO. 205

HIGH STRENGTH UNIT



CAT. NO. PH01110
ANSI TR NO. 225

EXTRA HIGH STRENGTH UNIT



CAT. NO. PE01110

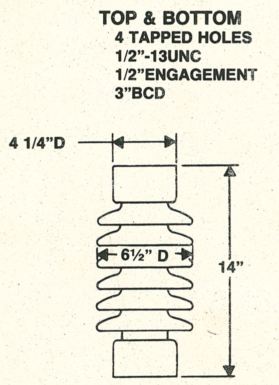
CHARACTERISTICS

Cat. No.		PS01110	PH01110	PE01110
Leakage Distance/in.		15½	15½	15½
Cantilever Strength/lb.		2,000	4,000	8,000
Tensile Strength/lb.		8,500	20,000	28,000
Torsional Strength/in.-lb.		7,000	14,000	40,000
Compression Strength/lb.		10,000	20,000	40,000
Critical Impulse Flashover Voltage, Positive/kV		125	125	125
Withstand Voltage	Low Frequency, Wet/kV	45	45	45
	Impulse/kV	110	110	110
Radio-Influence Voltage Data	Test Voltage to Ground/kV	10	10	10
	Maximum RIV at 1,000 kHz/μV	50	50	50
Net Weight/lb.		21	33	40

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 150 KV

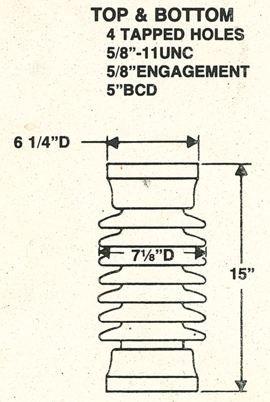
STANDARD STRENGTH UNIT



CAT. NO. PS01510

ANSI TR NO. 208

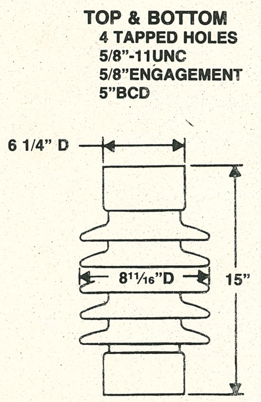
HIGH STRENGTH UNIT



CAT. NO. PH01510

ANSI TR NO. 227

EXTRA HIGH STRENGTH UNIT



CAT. NO. PE01510

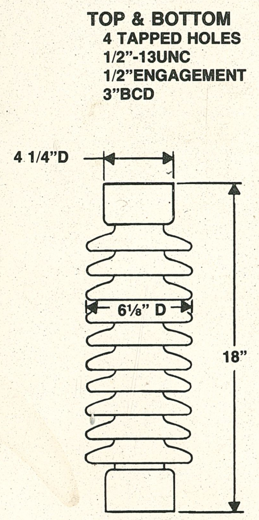
CHARACTERISTICS

Cat. No.		PS01510	PH01510	PE01510
Leakage Distance/in.		24	24	24
Cantilever Strength/lb.		2,000	4,000	8,000
Tensile Strength/lb.		10,000	20,000	28,000
Torsional Strength/in.-lb.		8,000	16,000	40,000
Compression Strength/lb.		10,000	20,000	40,000
Critical Impulse Flashover Voltage, Positive/kV		170	170	170
Withstand Voltage	Low Frequency, Wet/kV	60	60	60
	Impulse/kV	150	150	150
Radio-Influence Voltage Data	Test Voltage to Ground/kV	15	15	15
	Maximum RIV at 1,000 kHz/μV	100	100	100
Net Weight/lb.		27	47	54

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray and chocolate brown glaze is available.

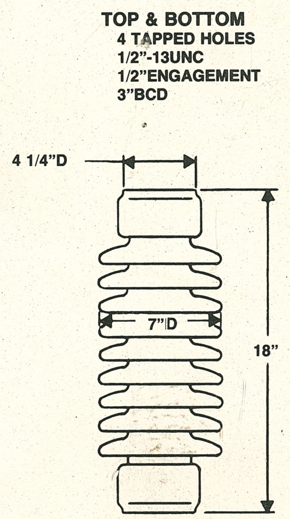
BIL 200 KV

1,000 LB. STRENGTH UNIT



CAT. NO. PB02010

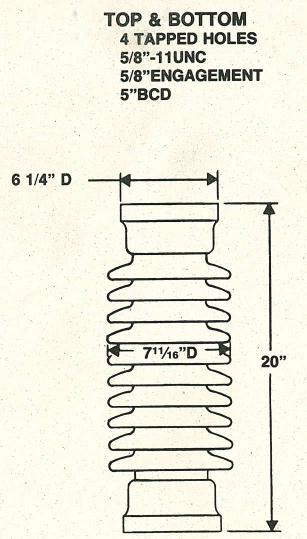
STANDARD STRENGTH UNIT



CAT. NO. PS02010

ANSI TR NO. 210

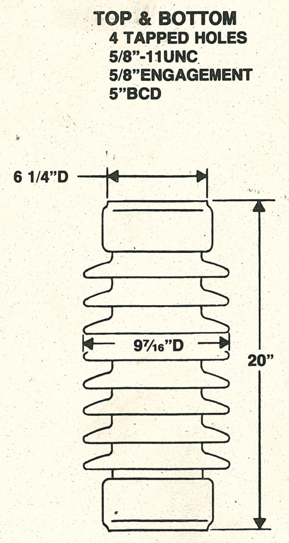
HIGH STRENGTH UNIT



CAT. NO. PH02010

ANSI TR NO. 231

EXTRA HIGH STRENGTH UNIT



CAT. NO. PE02010

CHARACTERISTICS

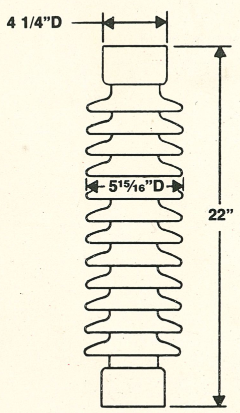
Cat. No.		PB02010	PS02010	PH02010	PE02010
Leakage Distance/in.		37	37	37	37
Cantilever Strength/lb.		1,000	2,000	4,000	8,000
Tensile Strength/lb.		12,000	12,000	25,000	28,000
Torsional Strength/in.-lb.		10,000	10,000	20,000	40,000
Compression Strength/lb.		15,000	15,000	30,000	60,000
Critical Impulse Flashover Voltage, Positive/kV		225	225	225	225
Withstand Voltage	Low Frequency, Wet/kV	80	80	80	80
	Impulse/kV	200	200	200	200
Radio-Influence Voltage Data	Test Voltage to Ground/kV	22	22	22	22
	Maximum RIV at 1,000 kHz/μV	100	100	100	100
Net Weight/lb.		34	40	64	88

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray and chocolate brown glaze is available.

BIL 250 KV

1,000 LB. STRENGTH UNIT

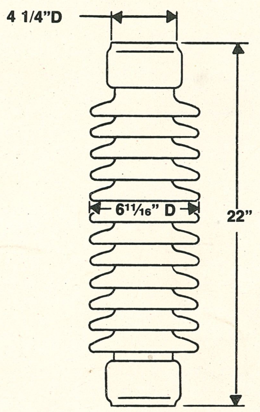
TOP & BOTTOM
4 TAPPED HOLES
1/2"-13UNC
1/2"ENGAGEMENT
3"BCD



CAT. NO. PB02510

STANDARD STRENGTH UNIT

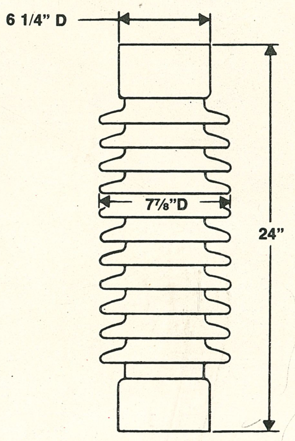
TOP & BOTTOM
4 TAPPED HOLES
1/2"-13UNC
1/2"ENGAGEMENT
3"BCD



CAT. NO. PS02510
ANSI TR NO. 214

HIGH STRENGTH UNIT

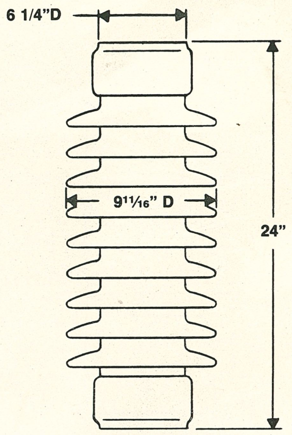
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PH02510
ANSI TR NO. 267

EXTRA HIGH STRENGTH UNIT

TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PE02510

CHARACTERISTICS

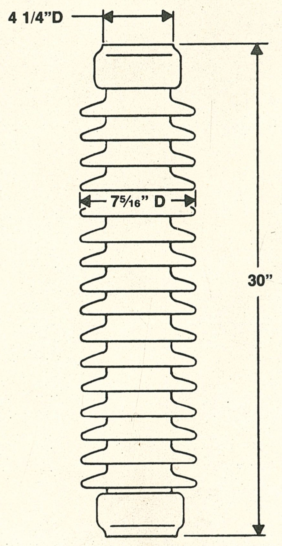
Cat. No.		PB02510	PS02510	PH02510	PE02510
Leakage Distance/in.		43	43	43	43
Cantilever Strength/lb.		1,000	2,000	4,000	7,000
Tensile Strength/lb.		14,000	14,000	25,000	28,000
Torsional Strength/in.-lb.		12,000	12,000	20,000	40,000
Compression Strength/lb.		15,000	15,000	30,000	60,000
Critical Impulse Flashover Voltage, Positive/kV		280	280	280	280
Withstand Voltage	Low Frequency, Wet/kV	100	100	100	100
	Impulse/kV	250	250	250	250
Radio-Influence Voltage Data	Test Voltage to Ground/kV	30	30	30	30
	Maximum RIV at 1,000 kHz/μV	200	200	200	200
Net Weight/lb.		38	50	78	112

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray and chocolate brown glaze is available.

BIL 350 KV

1,000 LB. STRENGTH UNIT

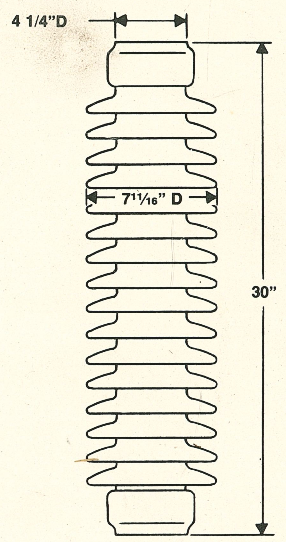
TOP & BOTTOM
4 TAPPED HOLES
1/2"-13UNC
1/2"ENGAGEMENT
3"BCD



CAT. NO. PB03510

STANDARD STRENGTH UNIT

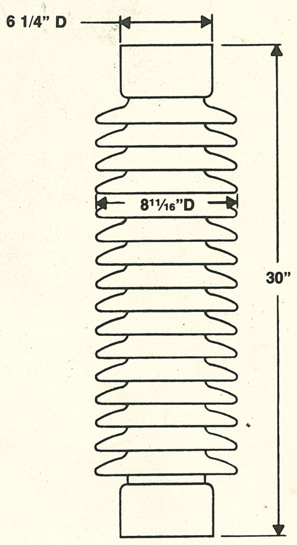
TOP & BOTTOM
4 TAPPED HOLES
1/2"-13UNC
1/2"ENGAGEMENT
3"BCD



CAT. NO. PS03510
ANSI TR NO. 216

HIGH STRENGTH UNIT

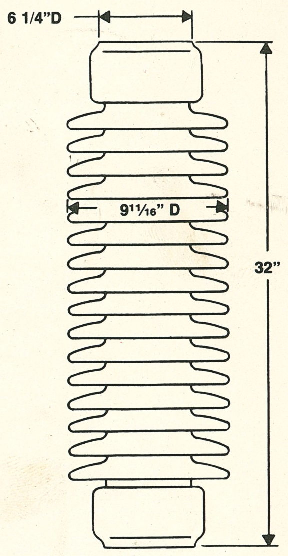
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PH03510
ANSI TR NO. 278

EXTRA HIGH STRENGTH UNIT

TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PE03510

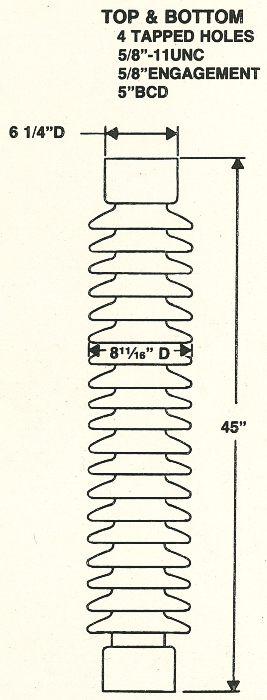
CHARACTERISTICS

Cat. No.		PB03510	PS03510	PH03510	PE03510
Leakage Distance/in.		72	72	72	72
Cantilever Strength/lb.		1,000	1,500	3,000	5,000
Tensile Strength/lb.		16,000	16,000	25,000	28,000
Torsional Strength/in.-lb.		15,000	15,000	40,000	40,000
Compression Strength/lb.		25,000	25,000	60,000	60,000
Critical Impulse Flashover Voltage, Positive/kV		390	390	390	390
Withstand Voltage	Low Frequency, Wet/kV	145	145	145	145
	Impulse/kV	350	350	350	350
Radio-Influence Voltage Data	Test Voltage to Ground/kV	44	44	44	44
	Maximum RIV at 1,000 kHz/μV	200	200	200	200
Net Weight/lb.		66	74	106	154

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray and chocolate brown glaze is available.

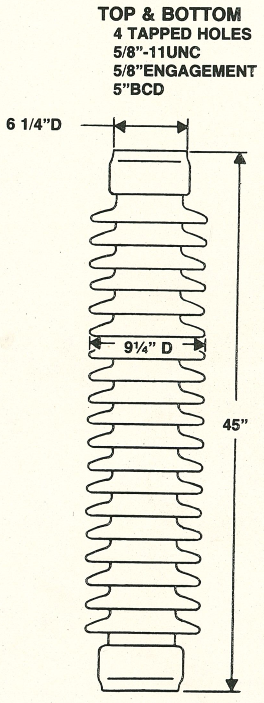
BIL 550 KV

STANDARD STRENGTH UNIT



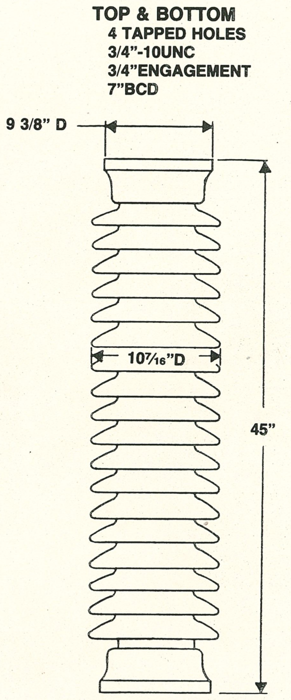
CAT. NO. PS05510
ANSI TR NO. 286

HIGH STRENGTH UNIT



CAT. NO. PH05510
ANSI TR NO. 287

EXTRA HIGH STRENGTH UNIT



CAT. NO. PE05510

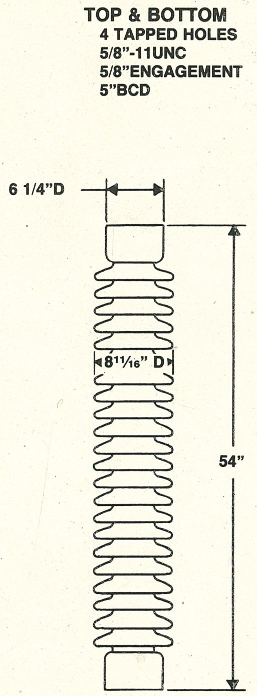
CHARACTERISTICS

Cat. No.		PS05510	PH05510	PE05510
Leakage Distance/in.		99	99	95
Cantilever Strength/lb.		2,000	2,900	5,000
Tensile Strength/lb.		20,000	25,000	40,000
Torsional Strength/in.-lb.		60,000	90,000	120,000
Compression Strength/lb.		60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive/kV		610	610	610
Withstand Voltage	Low Frequency, Wet/kV	230	230	230
	Impulse/kV	550	550	550
Radio-Influence Voltage Data	Test Voltage to Ground/kV	73	73	73
	Maximum RIV at 1,000 kHz/µV	200	200	200
Net Weight/lb.		143	175	257

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray or chocolate brown glaze is available.

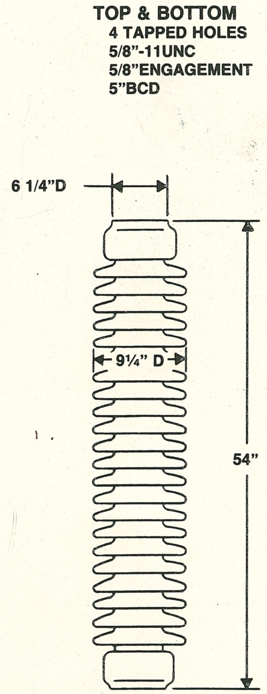
BIL 650 KV

STANDARD STRENGTH UNIT



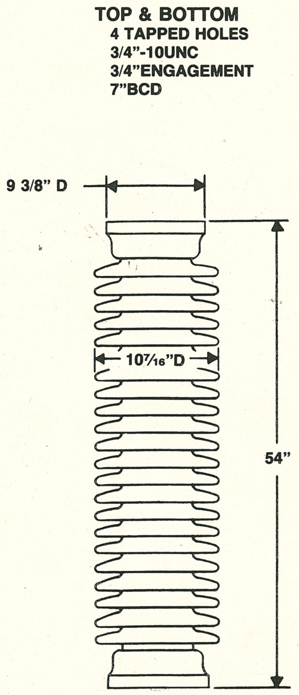
CAT. NO. PS06510
ANSI TR NO. 288

HIGH STRENGTH UNIT



CAT. NO. PH06510
ANSI TR NO. 289

EXTRA HIGH STRENGTH UNIT



CAT. NO. PE06510

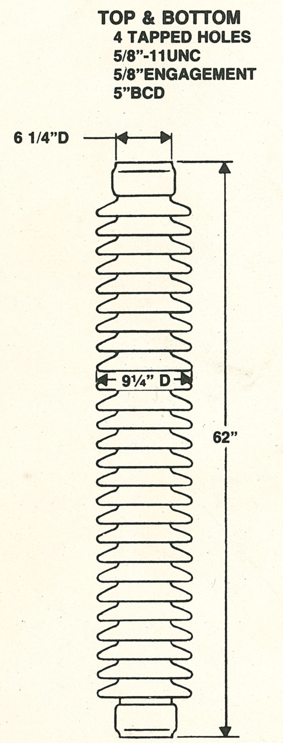
CHARACTERISTICS

Cat. No.		PS06510	PH06510	PE06510
Leakage Distance/in.		116	116	116
Cantilever Strength/lb.		1,450	2,450	4,100
Tensile Strength/lb.		20,000	25,000	40,000
Torsional Strength/in.-lb.		60,000	90,000	120,000
Compression Strength/lb.		60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive/kV		710	710	710
Withstand Voltage	Low Frequency, Wet/kV	275	275	275
	Impulse/kV	650	650	650
Radio-Influence Voltage Data	Test Voltage to Ground/kV	88	88	88
	Maximum RIV at 1,000 kHz/µV	200	200	200
Net Weight/lb.		167	203	300

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray or chocolate brown glaze is available.

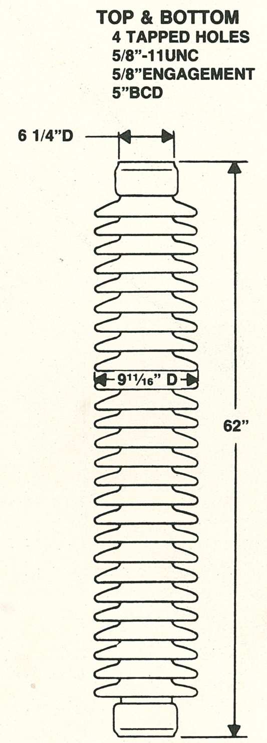
BIL 750 KV

STANDARD STRENGTH UNIT



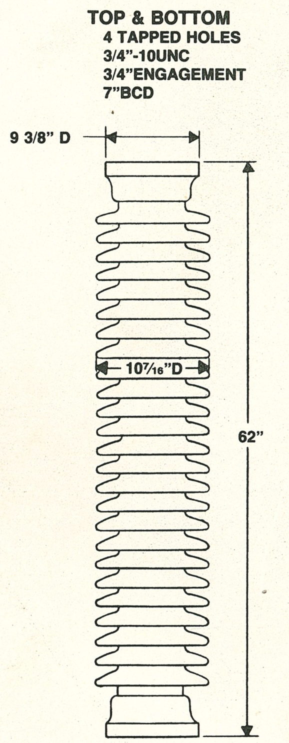
CAT. NO. PS07510
ANSI TR NO. 291

HIGH STRENGTH UNIT



CAT. NO. PH07510
ANSI TR NO. 295

EXTRA HIGH STRENGTH UNIT



CAT. NO. PE07510

CHARACTERISTICS

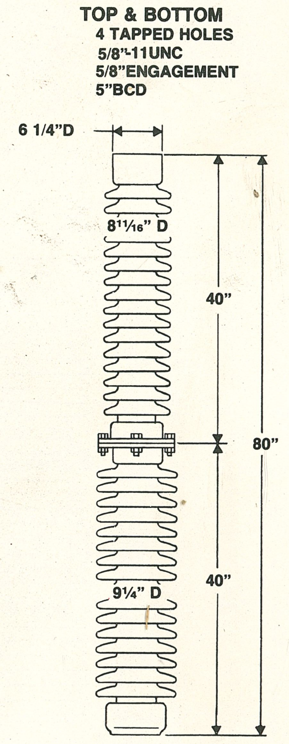
Cat. No.		PS07510	PH07510	PE07510
Leakage Distance/in.		132	132	132
Cantilever Strength/lb.		1,200	2,000	3,500
Tensile Strength/lb.		20,000	25,000	40,000
Torsional Strength/in.-lb.		60,000	90,000	120,000
Compression Strength/lb.		60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive/kV		810	810	810
Withstand Voltage	Low Frequency, Wet/kV	315	315	315
	Impulse/kV	750	750	750
Radio-Influence Voltage Data	Test Voltage to Ground/kV	103	103	103
	Maximum RIV at 1,000 kHz/μV	500	500	500
Net Weight/lb.		232	259	336

Notes: 1. These units are not furnished with mounting bolts which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 900 KV

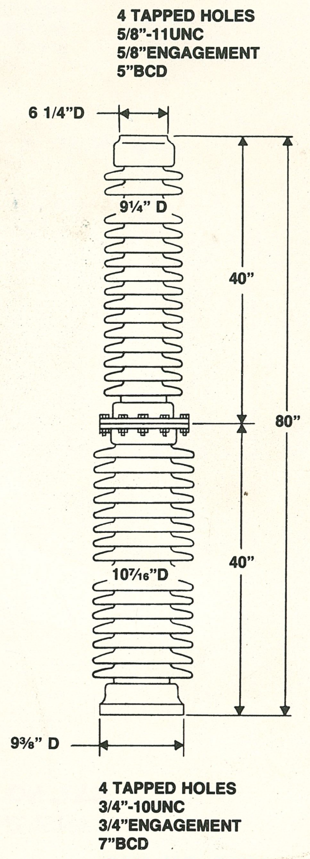
TAPERED STACKS

HIGH STRENGTH STACK



CAT. NO. PH09020

EXTRA HIGH STRENGTH STACK



CAT. NO. PE09020

CHARACTERISTICS

Cat. No.		PH09020	PE09020
Components		PH0902J PH0902X	PE0902J PE0902X
Leakage Distance/in.		165	165
Cantilever Strength/lb.		1,450	2,750
Tensile Strength/lb.		20,000	25,000
Torsional Strength/in.-lb.		60,000	90,000
Compression Strength/lb.		60,000	90,000
Critical Impulse Flashover Voltage, Positive/kV		1,010	1,010
Withstand Voltage	Low Frequency, Wet/kV	385	385
	Impulse/kV	900	900
Radio Influence Voltage Data	Test Voltage to Ground/kV	146	146
	Maximum RIV at 1,000kHz/μV	500	500
Net Weight/lb.		303	374

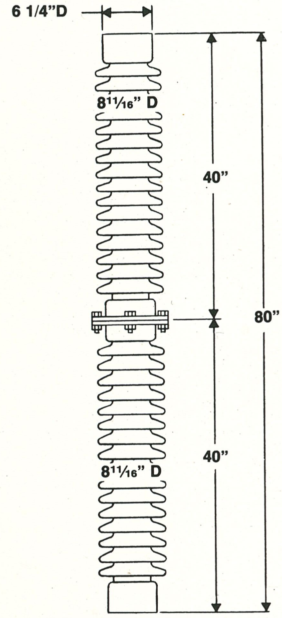
Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 900 KV

UNIFORM DIAMETER STACKS

STANDARD STRENGTH STACK

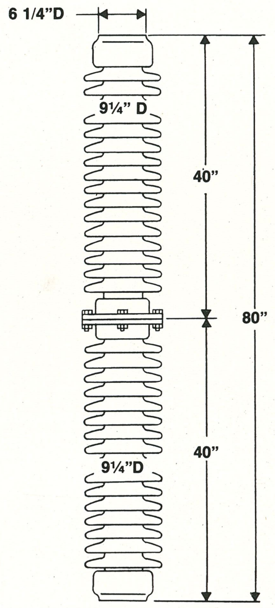
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PS090201
ANSI TR NO. 304

HIGH STRENGTH STACK

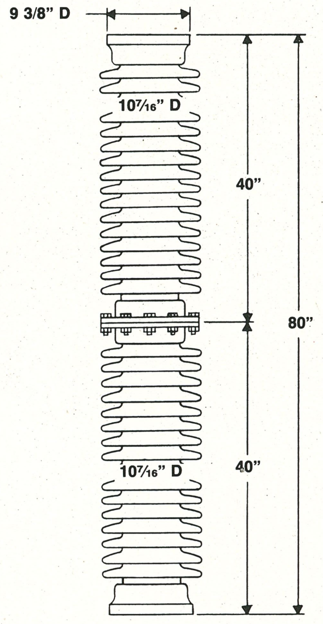
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PH090201
ANSI TR NO. 308

EXTRA HIGH STRENGTH STACK

TOP & BOTTOM
4 TAPPED HOLES
3/4"-10UNC
3/4"ENGAGEMENT
7"BCD



CAT. NO. PE090201

CHARACTERISTICS

Cat. No.		PS090201	PH090201	PE090201
Components		PS0902Y PS0902X	PH0902Y PH0902X	PE0902Y PE0902X
Leakage Distance/in.		165	165	165
Cantilever Strength/lb.		1,000	1,450	2,750
Tensile Strength/lb.		20,000	25,000	40,000
Torsional Strength/in.-lb.		60,000	90,000	120,000
Compression Strength/lb.		60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive/kV		1,010	1,010	1,010
Withstand Voltage	Low Frequency, Wet/kV	385	385	385
	Impulse/kV	900	900	900
Radio Influence Voltage Data	Test Voltage to Ground/kV	146	146	146
	Maximum RIV at 1,000kHz/μV	500	500	500
Net Weight/lb.		270	318	465

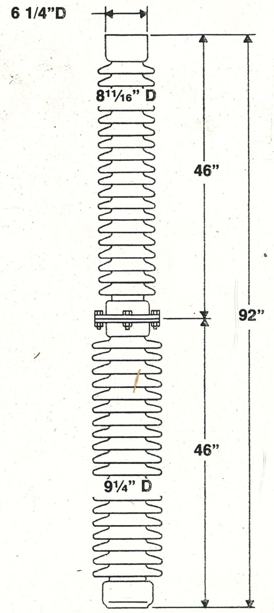
Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 1050 KV

TAPERED STACKS

HIGH STRENGTH STACK

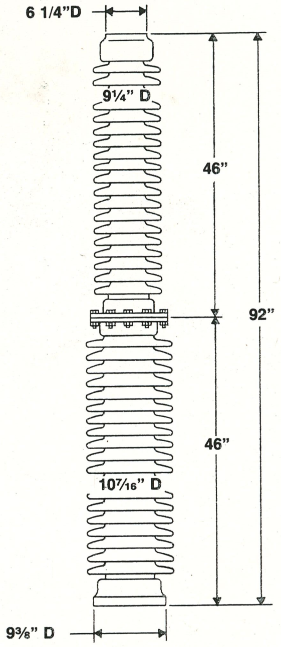
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PH10520

EXTRA HIGH STRENGTH STACK

4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



4 TAPPED HOLES
3/4"-10UNC
3/4"ENGAGEMENT
7"BCD

CAT. NO. PE10520

CHARACTERISTICS

Cat. No.		PH10520	PE10520
Components		PH1052J PH1052X	PE1052J PE1052X
Leakage Distance/in.		198	198
Cantilever Strength/lb.		1,250	2,300
Tensile Strength/lb.		20,000	25,000
Torsional Strength/in.-lb.		60,000	90,000
Compression Strength/lb.		60,000	90,000
Critical Impulse Flashover Voltage, Positive/kV		1,210	1,210
Withstand Voltage	Low Frequency, Wet/kV	455	455
	Impulse/kV	1,050	1,050
Radio Influence Voltage Data	Test Voltage to Ground/kV	146	146
	Maximum RIV at 1,000kHz/μV	500	500
Net Weight/lb.		334	440

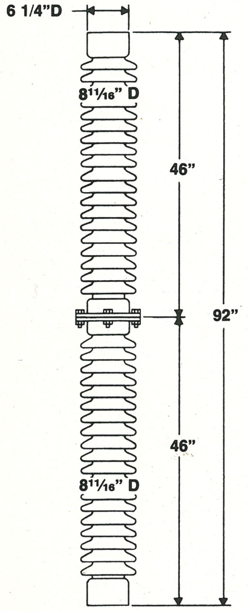
Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 1050 KV

UNIFORM DIAMETER STACKS

STANDARD STRENGTH STACK

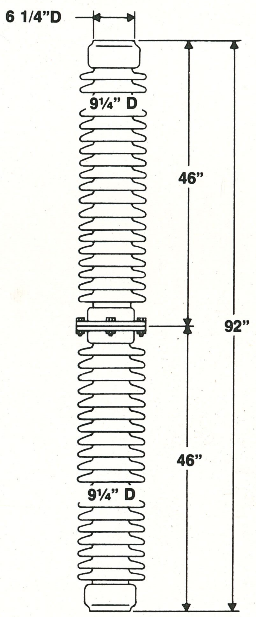
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PS105201
ANSI TR NO. 312

HIGH STRENGTH STACK

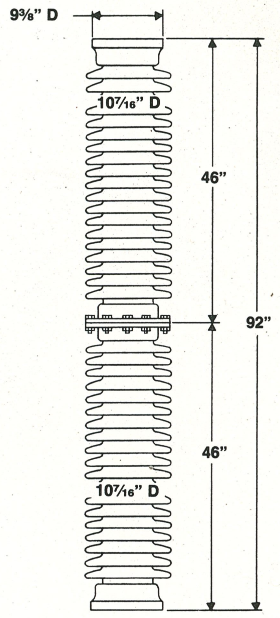
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PH105201
ANSI TR NO. 316

EXTRA HIGH STRENGTH STACK

TOP & BOTTOM
4 TAPPED HOLES
3/4"-10UNC
3/4"ENGAGEMENT
7"BCD



CAT. NO. PE105201
ANSI TR NO. 362

CHARACTERISTICS

Cat. No.		PS105201	PH105201	PE105201
Components		PS1052Y PS1052X	PH1052Y PH1052X	PE1052Y PE1052X
Leakage Distance/in.		198	198	198
Cantilever Strength/lb.		1,000	1,250	2,300
Tensile Strength/lb.		20,000	25,000	40,000
Torsional Strength/in.-lb.		60,000	90,000	120,000
Compression Strength/lb.		60,000	90,000	120,000
Critical Impulse Flashover Voltage, Positive/kV		1,210	1,210	1,210
Withstand Voltage	Low Frequency, Wet/kV	455	455	455
	Impulse/kV	1,050	1,050	1,050
Radio Influence Voltage Data	Test Voltage to Ground/kV	146	146	146
	Maximum RIV at 1,000kHz/μV	500	500	500
Net Weight/lb.		306	362	518

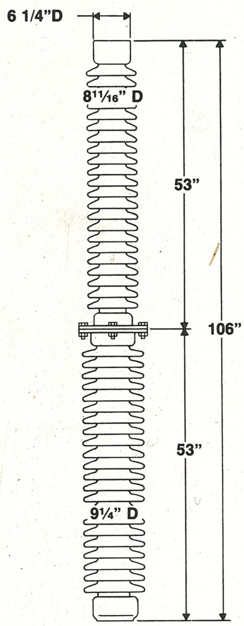
Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 1300 KV

TAPERED STACKS

HIGH STRENGTH STACK

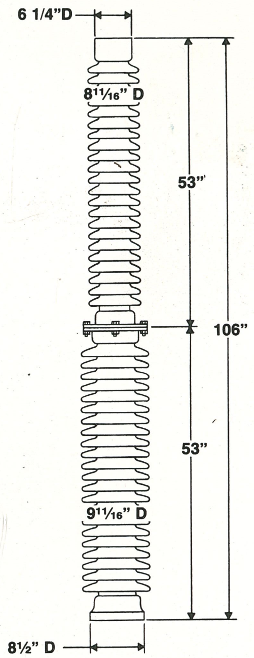
TOP & BOTTOM
4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



CAT. NO. PH13020

HIGH STRENGTH STACK

4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD

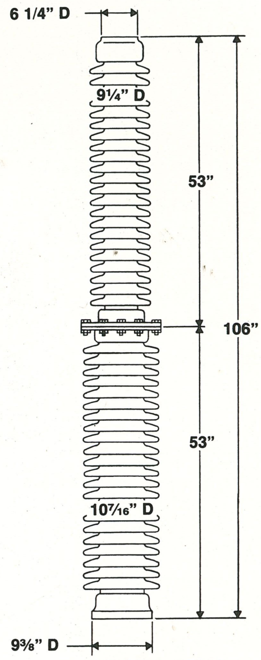


4 TAPPED HOLES
3/4"-10UNC
3/4"ENGAGEMENT
7"BCD

CAT. NO. PH130202
ANSI TR NO. 367

EXTRA HIGH STRENGTH STACK

4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



4 TAPPED HOLES
3/4"-10UNC
3/4"ENGAGEMENT
7"BCD

CAT. NO. PE13020
ANSI TR NO. 369

CHARACTERISTICS

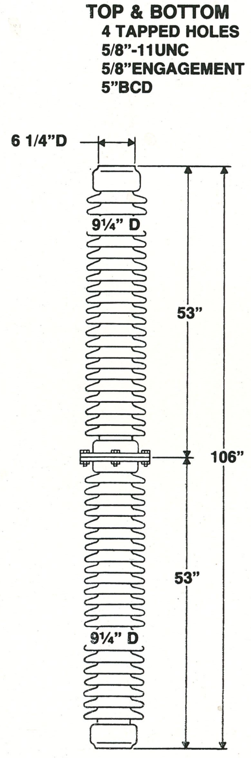
Cat. No.		PH13020	PH130202	PE13020
Components		PH1302J PH1302X	PH1302J PH1302R	PE1302J PE1302X
Leakage Distance/in.		231	231	231
Cantilever Strength/lb.		1,000	1,450	2,050
Tensile Strength/lb.		20,000	20,000	25,000
Torsional Strength/in.-lb.		60,000	60,000	90,000
Compression Strength/lb.		60,000	60,000	90,000
Critical Impulse Flashover Voltage, Positive/kV		1,410	1,410	1,410
Withstand Voltage	Low Frequency, Wet/kV	525	525	525
	Impulse/kV	1,300	1,300	1,300
Radio Influence Voltage Data	Test Voltage to Ground/kV	220	220	220
	Maximum RIV at 1,000kHz/μV	1,000	1,000	1,000
Net Weight/lb.		378	406	512

Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 1300 KV

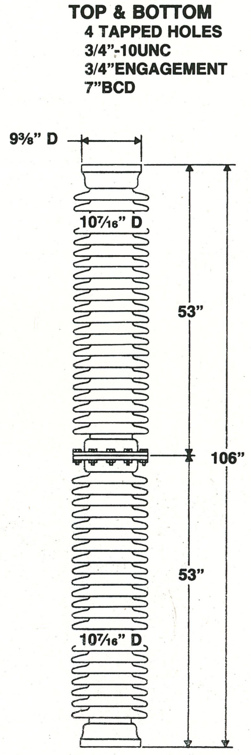
UNIFORM DIAMETER STACKS

HIGH STRENGTH STACK



CAT. NO PH130201
ANSI TR NO. 324

EXTRA HIGH STRENGTH STACK



CAT. NO. PE130201
ANSI TR NO. 368

CHARACTERISTICS

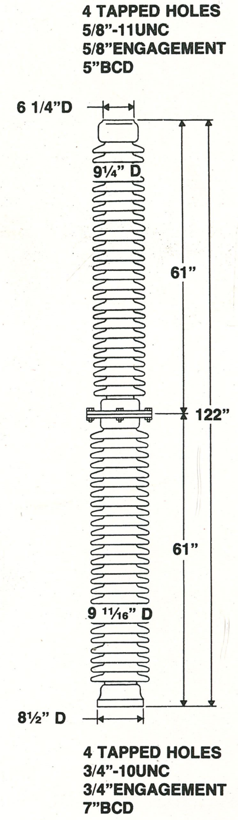
Cat. No.		PH130201	PE130201
Components		PH1302Y PH1302X	PE1302Y PE1302X
Leakage Distance/in.		231	231
Cantilever Strength/lb.		1,000	2,050
Tensile Strength/lb.		25,000	40,000
Torsional Strength/in.-lb.		90,000	120,000
Compression Strength/lb.		90,000	120,000
Critical Impulse Flashover Voltage, Positive/kV		1,410	1,410
Withstand Voltage	Low Frequency, Wet/kV	525	525
	Impulse/kV	1,300	1,300
Radio Influence Voltage Data	Test Voltage to Ground/kV	220	220
	Maximum RIV at 1,000kHz/μV	1,000	1,000
Net Weight/lb.		410	590

Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 1470 KV

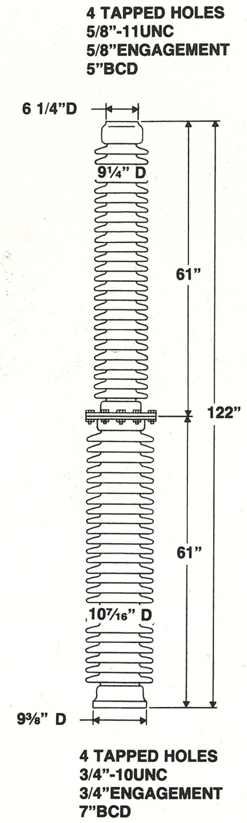
TAPERED STACKS

HIGH STRENGTH STACK



CAT. NO. PH147202
ANSI TR NO. 371

EXTRA HIGH STRENGTH STACK



CAT. NO. PE14720
ANSI TR NO. 373

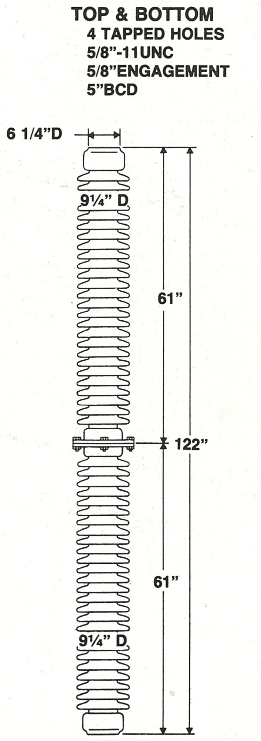
CHARACTERISTICS

Cat. No.		PH147202	PE14720
Components		PH1472Y PH1472R	PE1472J PE1472X
Leakage Distance/in.		264	264
Cantilever Strength/lb.		1,170	1,750
Tensile Strength/lb.		25,000	25,000
Torsional Strength/in.-lb.		90,000	90,000
Compression Strength/lb.		90,000	90,000
Critical Impulse Flashover Voltage, Positive/kV		1,610	1,610
Withstand Voltage	Low Frequency, Wet/kV	590	590
	Impulse/kV	1,470	1,470
Radio Influence Voltage Data	Test Voltage to Ground/kV	220	220
	Maximum RIV at 1,000kHz/μV	1,000	1,000
Net Weight/lb.		500	573

Notes: 1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

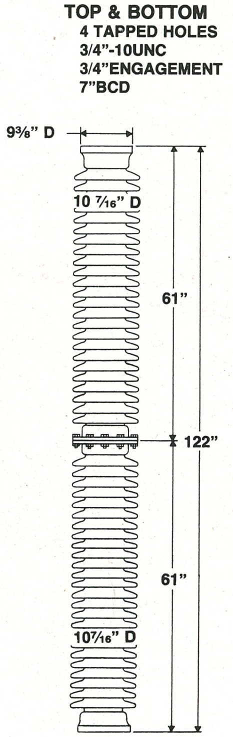
BIL 1470 KV
UNIFORM DIAMETER STACKS

HIGH STRENGTH STACK



CAT. NO. PH147201
ANSI TR NO. 330

EXTRA HIGH STRENGTH STACK



CAT. NO. PE147201
ANSI TR NO. 372

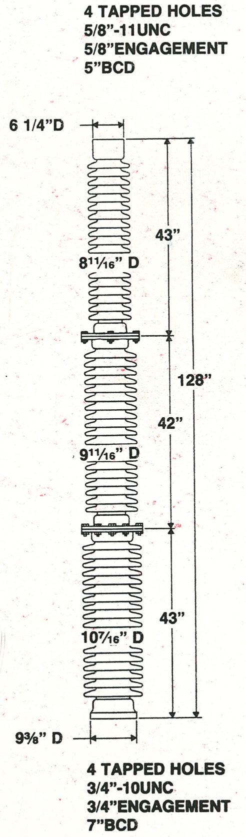
CHARACTERISTICS

Cat. No.		PH147201	PE147201
Components		PH1472Y PH1472X	PE1472Y PE1472X
Leakage Distance/in.		264	264
Cantilever Strength/lb.		1,000	1,750
Tensile Strength/lb.		25,000	40,000
Torsional Strength/in.-lb.		90,000	120,000
Compression Strength/lb.		90,000	120,000
Critical Impulse Flashover Voltage, Positive/kV		1,610	1,610
Withstand Voltage	Low Frequency, Wet/kV	590	590
	Impulse/kV	1,470	1,470
Radio Influence Voltage Data	Test Voltage to Ground/kV	220	220
	Maximum RIV at 1,000kHz/μV	1,000	1,000
Net Weight/lb.		469	670

Notes:
1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 1550 KV
TAPERED STACK

EXTRA HIGH STRENGTH STACK



CAT. NO. PE15530
ANSI TR NO. 379

CHARACTERISTICS

Cat. No.		PE15530
Components		PE1553J PE1553W PE1553X
Leakage Distance/in.		280
Cantilever Strength/lb.		1,700
Tensile Strength/lb.		25,000
Torsional Strength/in.-lb.		90,000
Compression Strength/lb.		90,000
Critical Impulse Flashover Voltage, Positive/kV		1,710
Withstand Voltage	Low Frequency, Wet/kV	620
	Impulse/kV	1,550
Radio Influence Voltage Data	Test Voltage to Ground/kV	318
	Maximum RIV at 1,000kHz/μV	2,000
Net Weight/lb.		600

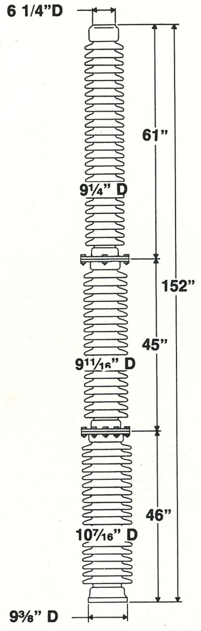
Notes:
1. These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.
2. Light gray or chocolate brown glaze is available.

BIL 1800KV

TAPERED STACK

EXTRA HIGH STRENGTH STACK

4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



4 TAPPED HOLES
3/4"-10UNC
3/4"ENGAGEMENT
7"BCD

CAT. NO. PE18030

ANSI TR NO. 391

CHARACTERISTICS

Cat. No.		PE18030
Components		PH1472Y PE1803W PE1052X
Leakage Distance/in.		330
Cantilever Strength/lb.		1,400
Tensile Strength/lb.		20,000
Torsional Strength/in.-lb.		60,000
Compression Strength/lb.		60,000
Critical Impulse Flashover Voltage, Positive/kV		2,000
Withstand Voltage	Low Frequency, Wet/kV	710
	Impulse/kV	1,800
Radio Influence Voltage Data	Test Voltage to Ground/kV	318
	Maximum RIV at 1,000kHz/μV	2,000
Net Weight/lb.		710

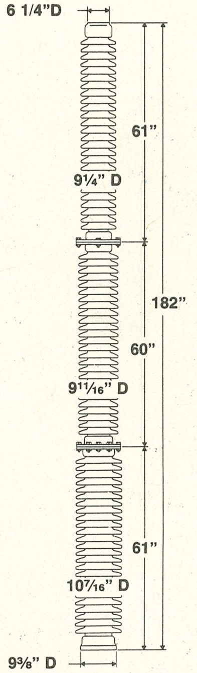
Notes:
1. **These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.**
2. **Light gray or chocolate brown glaze is available.**

BIL 2050 KV

TAPERED STACK

EXTRA HIGH STRENGTH STACK

4 TAPPED HOLES
5/8"-11UNC
5/8"ENGAGEMENT
5"BCD



4 TAPPED HOLES
3/4"-10UNC
3/4"ENGAGEMENT
7"BCD

CAT. NO. PE20530

CHARACTERISTICS

Cat. No.		PE20530
Components		PH1472Y PE2053W PE1472X
Leakage Distance/in.		396
Cantilever Strength/lb.		1,200
Tensile Strength/lb.		20,000
Torsional Strength/in.-lb.		60,000
Compression Strength/lb.		60,000
Critical Impulse Flashover Voltage, Positive/kV		2,420
Withstand Voltage	Low Frequency, Wet/kV	830
	Impulse/kV	2,050
Radio Influence Voltage Data	Test Voltage to Ground/kV	350
	Maximum RIV at 1,000kHz/μV	2,000
Net Weight/lb.		840

Notes:
1. **These stacks are furnished with bolts, nuts and washers necessary for intermediate connection, but are not furnished with bolts for end mounting which are available upon request.**
2. **Light gray or chocolate brown glaze is available.**